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classmate

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# 1. Hotel Management System.

## Problem statement

A hotel management application that manages information about rooms, reservations, customers, and customer billing online i.e., automated way. Customers should be able to make reservations and cancel it online. Customers should be able to see the room images, reviews and location.

## Software Requirement Specification (SRS).

### 1. Introduction

1.1 Purpose: The main objective of Hotel management System's SRS is to provide an outline of how the system works and what would be the user expectation.

It provides clear understanding about the desired system based on client requirements.

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### 1.2 Scope of this document :

This document defines the overall working and main objectives of Hotel Management System such as reservation management, billing etc.

### 1.3 Overview

Automated system designed to streamline hotel operations such as reservation management, guest checkin/out, room service etc.

## 2. General description:

The hotel management system will cater to the needs of the hotel staff and guests providing intuitive interfaces for room booking guest profiles inventory management and financial reporting.

Reservation management allows guest to make reservation online or cancel it.

Guest services like checkin checkout

Billing service generates invoices, process payments

### 3. Functional Requirements

- Reservation management: Allow users to make online reservations.
- Room manage: Assign room to guests based on availability
- Guest management: Maintain guest profiles and check-in check-out details.
- Billing and invoice: Generate accurate bills, invoices and payment processes.

### 4. Interface Requirements:

- Integration with payment gateways
- Intuitive and user friendly interface for hotel staff and guests

### 5. Performance Requirements:

- System should respond to user actions with minimal time
- Handle high traffic during peak hours
- System should be reliable

### 6. Design constraints:

- System should comply with industry standards
- System should be compatible with current software and hardware.



## 7. Non-functional attribute

- Security
- Reliability
- Scalability
- Portability

## 8. Preliminary Schedule and Budget:

- Development timeline: 6 months
- Estimated budget ₹1,00,000

## 2. Credit card processing

### Problem statement:

A credit card processing involves collecting order information online, storing it in the database and entering it using on-site merchant credit card processing system.

### SRS

#### 1. Introduction

##### 1.1. Purpose of the document

The purpose of this document is to outline the requirements and specifications for the development of a Credit Card Processing System.

##### 1.2 Scope of document

This document defines overall working and main objectives of credit card processing system. It includes a description of development cost & time.

##### 1.3 Overview

It is a software designated to facilitate secure and efficient processing of credit card and transactions.

#### 2. General description:

The System facilitates needs of merchants providing features such as payment acceptance, transaction processing, fraud detection etc.

It should facilitate secure transactions.



### 3. Functional Requirements.

- Payment using cards
- Transaction processing
- Authorization
- Fraud detection
- Reporting

### 4. UI/Interface requirements

- Provide merchants with intuitive user dashboards
- Integrating payment gateways

### 5. Performance requirements

- Error rate should be low
- Response time should be minimal.
- Scalability should be more and handle traffic.

### 6. Design constraints

Comply to regulatory requirements and industry standards for data protection and privacy.

### 7. Non-functional attributes

- Security
- Reliability
- Performance
- Scalability
- Data integrity

### 8. Preliminary schedule and Budget

- Time requirement: around 8 months
- Cost estimation: ₹ 2,00,000

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### 3. Library Management System

#### Problem statement

Library management system keeps student records, book records, account details, etc online as the manual process is difficult.

#### 1. Introduction

##### 1.1 Purpose of the document

The purpose of this document is to outline the requirements and specifications for the development of a Library Management System. It will provide clear understanding of objectives and scope.

##### 1.2 Scope of this document

This document defines the overview of working and main objectives of the Library Management System.

##### 1.3 Overview

The Library Management System is a software solution designed to automate library operations including cataloging, circulation, inventory management & patron management.

#### 2. General description

The library management system will cater to the needs of librarians, library staffs, and patrons providing features such as book cataloging, circulation management, borrowing, renewal and fine management.

#### 3. Functional requirements

- Cataloging and books management
- Circulation management
- User profile management
- Reporting and analysis



#### 4. Interface requirements.

- Intuitive user interface for librarians
- Integration interface of library database
- Data exchange or cataloging interface.

#### 5. Performance requirements

- Fast response time
- Scalability for multiple users
- Maintain high availability and data integrity.

#### 6. Design constraints

- Software compatibility over various OS and DBMS
- Data security.

#### 7. Non-functional requirements

- Product: Security, Usability, reliability
- Organisational: scalability
- External: Interoperable, performance

#### 8. Preliminary schedule and budget.

- Time requirement: around 6 months
- Cost estimation: ₹ 4,00,000

## #1 Stock Maintenance system

### Problem statement:

The stock maintenance system used to keep track of product details such as product name, price, opening stock etc. The stores must be able to maintain stock details through online system

### SRS

#### 1. Introduction

##### 1.1. Purpose of the document

The purpose of this document is to outline the requirements & specifications for the development of a Stock Maintenance System

##### 1.2: Scope of this document

It provides the overview of working & main objectives of Stock Maintenance System. It includes description of development cost & time

##### 1.3: Overview

It is a software solution designed to automate and streamline inventory management process for business

#### 2. General description

The Stock Maintenance System will cater to the needs of businesses providing features such as stock item management, stock tracking, stock movement and reporting. It will support various types of stock items and suppliers.

#### 3. Functional requirements

- Stock item management: Edit stock details
- Stock tracking: Track stock levels in real-time
- Inventory replenishment
- Report and analytics



#### 4. Interface requirements

- User interface
- Integration interface
- Database interface

#### 5. Performance requirements

- Quick response time
- Scalability for growing stock items
- Reliability and data integrity

#### 6. Design constraints

- Ensuring compatibility with hardware
- Implementing robust security measures.

#### 7. Non-functional Requirements

Product: Usability, Reliability, Performance

Organizational: Compliance

External: Interoperable

#### 8. Preliminary schedule and Budget

Requirement gatherings, analysis, design:  
around 8 months

Budget estimation : ₹ 500,000

## 5. Passport Automation System

### Problem Statement:

Passport automation system is used in effective dispatch of passport to all of the applicants. This system adopts comprehensive approach to minimize manual work.

### SRS

#### 1. Introduction

##### 1.1 Purpose of the document.

The purpose of this document is to outline the requirement specifications for the development of passport automation system.

##### 1.2 Scope of this document.

This document defines overall working and main objectives of passport automation system.

##### 1.3 Overview

It is a software designed to streamline the process of passport application, renewal and tracking.

#### 2. General description

<sup>Passport Automation System</sup>  
The ~~Credit Card Processing System~~ will cater to the needs of passport authorities, applicants and government agencies.

#### 3. Functional Requirements

- Online application submission
- ✓ • Appointment scheduling
- Document verification
- Payment processing



#### 4. Interface requirements.

- Web portal
- Biometric devices.
- Document verification.

#### 5. Performance Requirements

- Fast response time.
- Scalability
- Data security

#### 6. Design constraints

- Data privacy
- System integration.
- Regularity compliance.

#### 7. Non-functional attributes.

- Product: Security, usability, reliability
- Organisational: Scalability
- External: Interoperable.

#### 8. Preliminary schedule and budget

Time requirements: 12 months

cost estimation: ₹2,00,000.

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